



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Culbreath Oil & Gas Company Inc.

20-10s-31w-Thomas KS

1532 S. Peoria Ave.
Tulsa, OK 74120

OstmeyerBixeman1-20A

ATTN: Pat Deenihan

Job Ticket: 54542

DST#: 2

Test Start: 2013.11.23 @ 01:25:00

GENERAL INFORMATION:

Formation: **Lansing "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:07:30

Time Test Ended: 11:02:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Cornelio Landa III (

Unit No: 64

Interval: 4194.00 ft (KB) To 4212.00 ft (KB) (TVD)

Reference Elevations: 3022.00 ft (KB)

Total Depth: 4212.00 ft (KB) (TVD)

3014.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6772 Inside

Press@RunDepth: 35.04 psig @ 4197.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.23

End Date:

2013.11.23

Last Calib.: 2013.11.09

Start Time: 01:25:05

End Time:

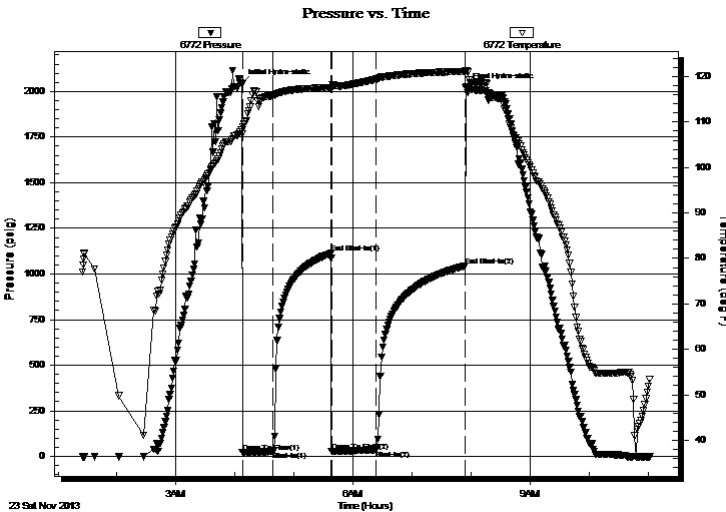
11:02:15

Time On Btm: 2013.11.23 @ 04:07:15

Time Off Btm: 2013.11.23 @ 07:54:30

TEST COMMENT: IF: 2 1/2 in. of blow
IS: Bled off in 1 1/2 min.-No return
FF: No blow
FS: No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2040.92	108.35	Initial Hydro-static
1	21.55	107.37	Open To Flow (1)
32	27.07	115.81	Shut-In(1)
91	1113.35	117.58	End Shut-In(1)
91	28.20	117.26	Open To Flow (2)
136	35.04	119.41	Shut-In(2)
227	1044.95	121.15	End Shut-In(2)
228	2021.10	121.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud w/oil specs 100m	0.42

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

* Recovery from multiple tests



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FLUID SUMMARY

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Test Start: 2013.11.23 @ 01:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud w /oil specs 100m	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

